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June 23, 1950

W. J. Williams, Director, Division of Production, Washington R. W. Cook, Manager, Oak Ridge

RALA SOURCE SHIPMENTS

YMBOL: RMA: JS

ATTENTION: N. J. Carothers

Approved for Release to the Public

Amy Z. Rothwork

DOE Privacy Act Officer COR

This is to confirm a telephone conversation of June 21, 1950, between Mr. Carothers and Mr. Kasschau of this office.

The present Rala production facility has been shut down following shipment of Run No. 12, which was shipped to Los Alamos June 17, 1950. The shutdown which will be until the first week in September has been coordinated and was suggested by Los Alamos in order that it might coincide with a similar shutdown of Rala processing facilities at site Y. The shutdown will be used to make building and equipment changes which have been previously approved by you.

Rala source No. 38 was produced from 76 Hanford slugs, chemical yield was 77.66 percent, activity 4670 curies, and the material arrived at Los Alamos on January 9, 1950.

The next run, No. 39, was not a production run but was a demonstration at full Hanford level of an ion exchange process. A concentrated radiobarium source was not produced, but the activity of the product was approximately 1400 curies.

We will continue to advise you of shipments, but as suggested by you, memoranda will be employed rather than teletypes?

Albert H. Holland, Jr., M.D.

hilling: vh

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This document has been reviewed for classification and has been determined to be UNCLASSIFIED

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Edward J. Bloch, Director, Division of Production, Washington

S. R. Sapirie, Manager Oak Ridge Operations Office

MATERIAL RELEASE IN BUILDING 9206 (U)

BYNBOL

OPA: EDN

DECLASSIFICATION AUTHORY

GARRIEL MARCIANTE ORD CHASSIFICATION OFFICER

GARRIEL MARCIANTE ORD CHASSIFICATION OFFICER

OPERATOR OFFICER

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oference: Teletype from S. R. Sepirie to E. J. Bloch, (Symbol OF:CAE-406), dated May 11, 1956.

The investigation of the paterial release that occurred and was reported on May 11, 1956, by referenced teletype, has been completed.

The selence was consed by the rupture of the hydrogen feed line to the gas phase terrefluoride to the salt reduction tower apparently the copper babe failed in fatigue induced by with tions.

The elera circuits were not activated promptly because the rupture occurred between the hydrogen sensing device and the reactor. This situation has been remedied to prevent a recurrence of the incidents.

No direct measurement was made of the quantity of hexafluoride released. The estimates given below are considered reasonable and are indirectly based on valid measurements of feed and product.

The quantity relaced was estimated from hold-up figures (receipts similar removals) southerly kept for the reactor involved. The average balk-up from November 2, 1955, to May 1, 1956, was 3.5 Kg. uranium (37.5% 56235). The average hold-up from determinations made after the incident on June 1, June 16 and July 1, 1956, was 11.0 Kg. uranium. The difference of 7.5 Kg. has been designated as a measured loss, rather than Habstidge planeses that June 1956.

The other meterial balance areas
factory during the above periods. We believe the estimates to be waiting

the best (bert to minerial secuped to the atemosphere where it means and set of the rentilation system.

The Bideral Barnet of Enrecht getton mu not notified at this selection

A PARTY

RELING TO THE

Edward J. Bloch

MITIAL AUG 9

since it was considered in the "process less" category.

Unless otherwise directed, we will consider the incident as satisfied factorily terminated.

ORIGINAL SIGNED BY

E. A. WENDE

. E. Fields, Washington D. F. Hayes, Washington J. A. Waters, Washington D. F. Husser, Washington

H. Woodruff

P. Callaghan

Distribution:

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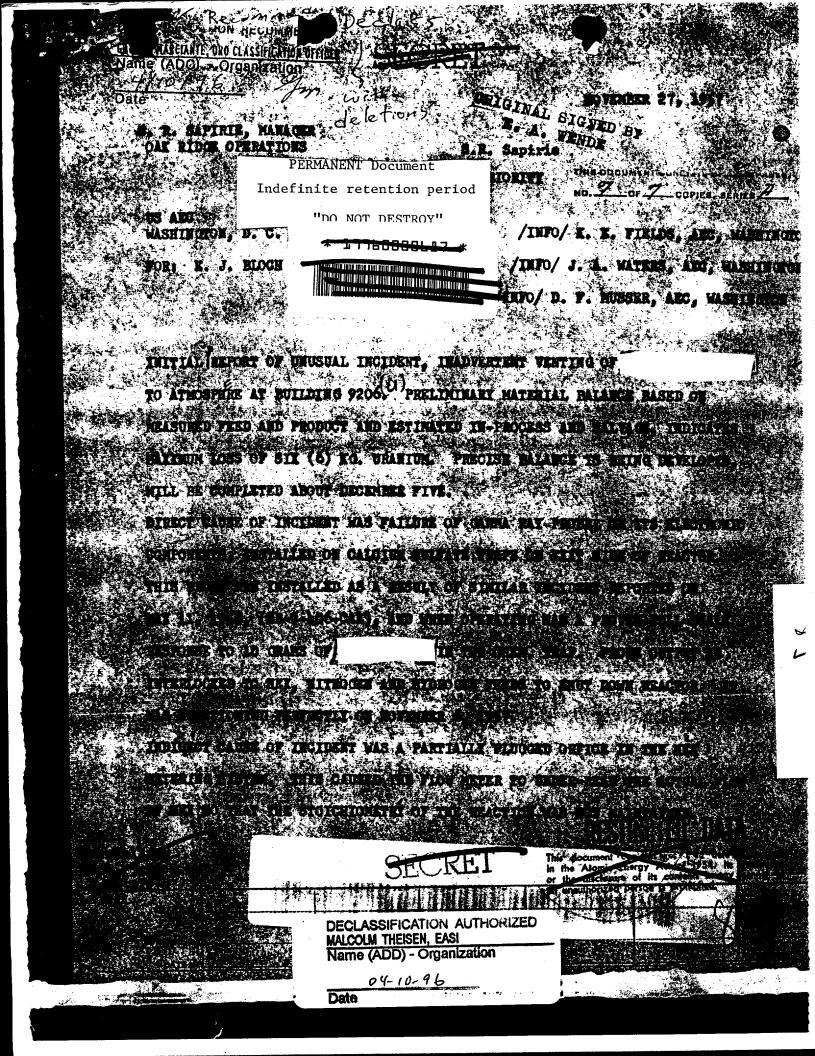
9A - S. R. Sapirie

10A - R. C. Armstrong w/d 11A - E. D. Marshall w/d

12A - NM Control Br. File



OFFICE N	Nuclear M Control B	r. Prod.	<b>对</b>
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SURNAME >	1828-56	PI PIS	
DATE	1		



NOVEMBER 27, 1957

E. J. BLOCH

THE EXCESS HEX SATURATED THE CHEM. TRAP (ESTIMATED GAPACITY 2 KG. OF URANIUM) AND THE UNABSCREED HEX WAS VENTED THROUGH THE EXHAUST SYSTEM TO THE ATHOS-PHERE AS A COLLOIDAL DISPERSION OF URANYL FLUORIDE. THE ONLY PHYSICALLY IDENTIFIABLE MATERIAL THAT PASSED THE TRAP IS THAT DEPOSITED IN THE STEAM HEATED VENT LINES TO THE STACK. THIS WILL BE RECOVERED.

THE INCIDENT WAS NOT BROUGHT TO THE ATTENTION OF THE LOCAL FEI OFFICE SINCE IT IS RECARDED AS A PROCESS EQUIPMENT FAILURE WITH NO POSSIBILITY OF DIVERSION SINCE THE SIX KR. LASS NEVER BY I THE AS AN ITEM OR IDENTIFIABLE PATCH AFTER ITS RELEASE.

ADEQUATE MEASURES APE BEING TAKEN TO PREVENT THE FAILURE OF THE DETECTING SYSTEM BY IMPROVING THE INSTRUMENTATION AND PROVIDING FOR A ROUTINE TESTING PROCEDURE DURING OPERATION OF THE PROCESSING EQUIPMENT.

CONSIDERATION IS BEING GIVEN TO AN ADDITIONAL ALARM DEVICE THAT WOULD BE ACTIVATED BY HEX IN THE STACK. END REF OPA: EDN

CC: R. C. Armstrong F. P. Callaghan Distribution:

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